D448 PCM TRUNK CARRIER SYSTEM

MAINTENANCE CONSIDERATIONS

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1. GENERAL

1.01 This Section provides information on maintenance and trouble location in the D448 multiplex terminal.

1.02 Whenever this Section is reissued, the reasons for reissue will be listed in this paragraph.

1.03 Since maintenance is defined as all work required to keep equipment up to standards, the content of this Section is restricted to the information necessary to keep the D448 multiplex terminal at its full operational capability.

1.04 After plug-in unit troubles have been located, the defective unit is replaced by a "hot spare" (preferred) or out-of-stock spare, and the defective unit is returned to ITT-Raleigh for repair (see Section ITTR-18-599, D448 PCM Trunk Carrier System — Disposition of Defective Units).

2. ROUTINE MAINTENANCE

2.01 Routine maintenance of an operating system is not required. Local practices may provide for periodic checks of transmit and receive levels, tracking, signal-to-distortion level and idle channel noise level. The automated test and alignment unit (ATAU) provides for rapid, accurate in-service checks on all the above.

3. ALARM TROUBLE LOCATION

3.01 Alarm trouble location consists of isolating problems to the unit level and then replacing the faulty unit. Trouble location procedures are provided in Section ITTR-18-531 (for Mode 1 operation), Section ITTR-18-532 (for Mode 2 operation), and Section ITTR-18-533 (for Mode 3 operation).

4. NON-ALARM TROUBLE LOCATION

4.01 A suspected system failure which degrades transmission performance, but does not result in a system alarm, may be identified by performing the tests outlined in Section ITTR-18-543, Non-Alarm Transmission and Signaling Trouble Location. A failure of this type is typically a single circuit failure. Section ITTR-18-543 outlines procedures to isolate the failure using either a single-ended or end-to-end method of test.

5. RECOMMENDED TEST EQUIPMENT

5.01 The test equipment recommended by ITT for use with the D448 multiplex terminal is listed in Section ITTR-18-600, D448 PCM Trunk Carrier System — Recommended Test Equipment.